

Co-Operative Phenomena and Diffusion in
a Plasma Perpendicular to a Magnetic
Field, Part II, by D. Pfirsch, L.
Biermann.

GERMAN, per, Z. fuer Naturforschung,
Vol XVa, No 1, 1960, pp 14-188.

CSIRO

Sci - Phys
Mar 62

189,288

Albert, Ludwig and Jaenicke, Walther.
CONCERNING THE NEEDLE GROWTH WITH THE
OXIDATION OF COPPER [Über das Nadelwachstum bei
der Oxidation von Kupfer, II]. Pt. 2 on Whisker-Growth
during the Oxidation of Copper. [1963] 32p (figs
formulas refs omitted)
Available on loan from SLA TT-63-20247

Trans. in manuscript of Zeitschrift für Naturforschung;
(West Germany) 1960, v. 15a, p. 59-65.

DESCRIPTORS: *Copper, Oxidation, *Single crystals,
*Whiskers (Crystallography), *Crystal growth

See also 63-18831

(Physics--Solid State, TT, v. 11, no. 1)

TT-63-20247

I. Albert, L.
II. Jaenicke, W.
III. Title: On...

Office of Technical Services

On the Possibility of the Directed Introduction of
Deuterium and Tritium in Nuclear Fusion Experiments,
by E. W. Becker, R. Klingelhofer, P. Lohse, 5 pp.

GERMAN, ger, Z Naturforsch, Vol XVa, 1960, pp 64-65.
9093619

AEC Tr-4791

Sci - Nuc Phys
Dec 61

177, 406

Bio Lab T-529-1

R-8679-D

11 Sept. 67

Eigenschaften einer infektiösen Nukleinsäure-Fraktion
aus Hühner-embryonen die mit Encephalitis-Virus
infiziert wurden

By: WECKNER, Ilberhard

From: Zeit. Naturfor. 156, 1960:71-78

(8 pp)

German - est for wds:

Please translate and type 1 camera ready copy.

Please make cover as sample attached. Document can be
cut. T-529-1

Detection of Individual B Particles With
Germanium and Silicon Surface Diodes,
by H. D. Engler.

GERMAN, per, Z. fuer Naturforschugng,
Vol XVa, No 1, 1960, pp 82-84.

CSIRO

Sci - Chem

191, 747

Apr 62

Opposition of Galba Truncatula to Sodium-
pentachlorophenolate, by K. Enig and D.
Diwel

GERMAN, per, Zeit. fur Naturforsch, Vol 166,
1960, pp 134-151.

ILL. Ref: 5828.4F (12723)

Sci-Agriculture

July 68

360,854

S-935/63

The Activation Energy for the Transverse
Slippage of Split Spiral Dislocations, by
Helmut Wolf, *37* *ff.*

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XVa, No 3, 1960, pp 180-193.

2
*JPRS/SF-2863
(Special)

Sci - M/M
Oct 63

Oscillation of a Plasma Cylinder in an Axial
Magnetic Field, II, by Klaus Kerper.

GERMAN, per: Zeitschrift für Naturforschung,
Vol 15a, 1960, pp 220-226.

Dept of Navy/APL/JHU T-2053.

Sci-Physics

Dec 67

346,595

Concerning the Temperature Dependence of the
Absorption Edge in CdS-Crystals, by
Heinz Radelt, 7 pp.

GERMAN, per, Z. fuer Naturforschung, Vol XVa,
No 3, 1960, pp 269-270. 9676324

FED-TT-62-129

Sci - Chem, Phys

3 May 62

194, 101

Inactivation of Lactic Dehydrogenase with Slow
Protons, by Heinz Kuhn, 16 pp.

GERMAN, per, Z. Naturforsch, Vol 15, 1960,
pp 277-284.

P911388567

ABC ORNL-Tr-1760

Sci-Chemistry

Dec 67

346,172

On the Excitation and Luminescence Mechanism of Inert Gases and Inert Gas Mixtures During Bombardment with Fast Electrodes, by Wolfgang Friedl.
GERMAN, per, Zeit fur Naturforschung,
Vol 15a, 1960, pp 398-404.
Dept of Navy NOL-803TT

Sci-Phys
Jan 69

373,532

Dachselt, W. D. and Pfefferkorn, G.
STRUCTURE OF COPPER OXIDE WHISKERS AND
DETERMINATION OF THEIR GROWTH IN LENGTH
[1968] [14p] (figs refs omitted)
Order from SLA \$1.60

63-18817

Trans. of Zeitschrift für Naturforschung (West
Germany) 1968, v. 15(a) p. 412-417.

DESCRIPTORS: *Copper compounds, Oxides, *Whiskers (Crystallography), Crystal structure, Determination, *Single crystals, Corrosion, *Metallic crystals, Crystal growth

By using silver and HCl copper oxide whiskers were grown between 200° and 300°C. that were measurable with the light microscope. They form CuO single crystals along [110] at the boundaries of the whiskers, six-sided prisms frequently appeared. The growth in length proceeded linearly ($L \sim \sqrt{t}$) till inhibition. (Physics--Solid State, TT, v. 10, no. 11) (over)

63-18817

I. Dachselt, W. D.
II. Pfefferkorn, G.

Office of Technical Services

Types of Motion in the Linear Pinch Effect and
Runaway Electrons, by E. Fuenf'er, G. Lehner,
H. Tuzcek, 19 pp.

GEIDMAN, per, Z fuer Naturforschung, Vol XVa, 1960,
pp 566-574. 9095567

AEC NP Tr-814

Sci - Phys
Mar 62

186,520

The Diffusion of Xe^{133} , Rn^{222} and I^{131} in
Thorium Oxide, by H. J. Matzke,
R. Lindner.

GERMAN, par, Z. Naturforsch., Vol. XVa, 1960,
pp 647, 648. 9091765

ANC Tr-1178

Sci. + Chem
Sep 62

312,708

Negative Electrical Conductivities, by J. Schneider,
19 p.

GERMAN, per, Zeitschrift fuer Naturforschung, Vol
XV a No 5/6, 1960, pp 484-489.

SLA TT 66-10888

Sci-Phys
Jul 66

304,487

S-935/63

The Temperature and Velocity Relationship of the
Solidification of Cubic-Face-Centered Metal
Monocrystals, by Rolf Berner, 3100.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XVa, No 8, 1960, pp 689-706.

2
*JPRS/SF-2368
(Special)

Sci - M/M
Oct 63

Reversal of Jet Separation in Over-
expanded Gas Streams, by K. Dier.
GERMAN, per, Zeit fur Naturforsh, Vol
15A, 1960, pp. 714-23.
NLL Ref: 9091.9F (CA Trans 191)

Sci-Mech
July 69

377,403

Jet Separation Technique, by E. W.
Becker, R. Schutte.
GERMAN, per, Zeit fur Naturforsh, Vol
15A, 1960, pp. 714-23.
NLL Ref: 9091.9F (CA Trans 192)

Sci-Mech
July 69

337,402

Non-Linear Elasticity Theory of Straight Dis-
locations, by H. Pfeleiderer, A. Seeger, et al.
GERMAN, per, Zeits. fur Naturforschung, Vol 15a
1960, pp 758-772. P911067267
AEC AERE-tr-1061

Sci/Materials
Mar 67

318,578

Koch, Gebhard.
ON THE DISPARATE INFECTIVITY OF ISOLATED
RIBONUCLEIC ACID AND COMPLETE POLIOVIRUS
IN TISSUE CULTURES (Zur Unterscheidung
Infektiosität von isolierter Ribonucleinsäure und
intaktem Poliovirus in der Gewebekultur). [196?]
17p. 14 refs.
Order from SLA \$1.60 62-16286

Trans. of [Zeitschrift für] Naturforsch[ung] (West
Germany) 1960, v. 15b, no. 10, p. 656-661.

DESCRIPTORS: *Nucleic acids, *Poliovirus
virus, Culture media, Tissue culture, Tissues
(Biology), *Genetics.

(Biological Sciences--Microbiology, TT, v. 1, no. 9)

62-16286

1. Koch, G.

Office of Technical Services

Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Viruses. First Report:
The Production of "Incomplete Forms" in the Virus
of Classic Chicken Plague (von Nagus Phenomenon),
by T. Rott, W. Schafer.

GERMAN, per, Z Naturforschung, No 15b, pp 691-693,
1960.

NIE 9-6-62

Sci - Med

Dec 62

218,860

A. Saupe

The Elastic Constants of the Nematic Phase of
Azoxyanisole.

GERMAN, per, Zeitschrift fuer Naturforschung.

Ausgabe A, Vol 15, 1960, pp 815-822

NTC 72-60553-20L

Oct 72

Mass Spectrometric Examination of
Photoionization of Hydrogen, by E. Schoenheit.

GERMAN, per, Zeitschrift fuer Naturforschung,
15a, 1960, pp 841, 842.

ERDL Ft Belvoir
T-1302

Sci - Phys

Jun 61

155, 243

Investigation of Thermal Relaxation in Nozzle Flows
by Analysis of the Gas-Kinetic Velocity Distribution,
by O. Hagena, W. Henkes, 14 pp.
GERMAN, per, Z fuer Naturforschung, Vol XVa, 1960,
pp 851-858. *269,950*
AEC-TRG-Inf Ser-353

German material Soc

T-6-213

Sci-Nucl Sci
Jun 64

260,950

Investigation of Electron Density in a
Linear Pinch by Means of 8.7 mm. Waves, by
H. Hermansdorfer, 11 pp.

GERMANY, per, Z. fuer Naturforschung, Vol XVa,
No 11, 1960, pp 979-983. 9079623

ABC NP-Tr-669

Sci
Aug 61

164, 883

Sodium 22 in the Meteorite Breitscheid,
by Else Vilcek, H. Wanka, 9 pp.

GERMAN, DHE, Zeitschrift für Naturforschung,
Vol. XVIa, pp 1004-1007, Nov 1960. 4081507

Royer and Roger

HEC

r-4777

170,384

Sci - Chem

Oct 61

Single and Plural Scattering of Charged Particles,
by E. Kell, E. Zeitler, et al, 15 pp.
GERMAN, per, Z fuer Naturforschung, Vol XVa, 1960,
pp 1031-1038. 9224364
AEC-UCRL-Tr-1036

Sci-Nucl Sci
Aug 64

265,123

61-22658

Seeger, A. and Buck, O.
METHODS FOR THE EXPERIMENTAL DETERMINA-
TION OF HIGH-ORDER ELASTIC CONSTANTS.
[1961] 19p.
Order from ATS \$23.95

ATS-31N51G

Trans. of Zeitschrift für Naturforsch[ung]
(West Germany) 1960, v. 15a, no. 12, p. 1056-1067.

DESCRIPTORS: *Elasticity, Determination.

ATS-910-63

- I. Seeger, A.
- II. Buck, O.
- III. ATS-31N51G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

175350

Diffusion of Radon in Oxides After Recoil Doping,
by R. Lindner, H. J. Matzke, 9 pp.

GERMAN, per, Z Naturforschung, Vol XVa, 1960,
pp 1082-1086. 9093451

ANC Tr-5058

Sci - Chem
May 62

196, 756

Comparison Between the Uvedberg, Maximal Gradient
and Three-Point Methods for the Evaluation of Curves
of the Ultracentrifuge Obtained With Philipot-
Evenson Optical System, by M. Gelatla, L. Rubner.

GERMAN, part, Z. Naturforschung, Vol XVb, 1960,
pp 351-364.

NIK 5-12-63

Sci - Math

Aug 63

341,402

SWELLING OF COLLAGEN FIBRILS, BY H. GANSLER, 3 PP.

GERMAN, PRE, Z. NATURFORSCHUNG, VOL XVb, NO 6,
1960, P 414.

NIH 6-8-62

SCI - MED

208,746

AU G 62

Catalase Content of Virus-Infected Tissue,
by Olaf Klammerth, 3 pp.

GEISMAN, per, Z. Naturforsch., Vol XVB, No 7,
1960, pp 448-449.

HHH 3-10-62

199, 759

Sci - Med.

Jun 62

Do Stretched Si-O-Si Bonds Exist? by
F. Liebau.
GERMAN, per, Zeit fur Naturforschung,
Vol 15 B, No 7, 1960, pp 468-469.
NTC 69-10883-07B

Sci-Chem
May 69

382,515

Investigations of Rapid ATP Reactions in Aqueous
Solution by Means of Relaxation Spectrometry, by
H. Diebler, 13 pp.
GERMAN, per, Zeit Naturforschung, Vol XVb, 1960,
pp 554-560.
NIH 2-21-64

Sci - Biol & Med
Apr 64

253,754

Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Virus. First Report:
The Production of "Incomplete Virus" in the Virus
of Classic Chicken Plague (von Hagens Phenomenon),
by T. Bött, W. Schafer.

GERMAN, par, Z Naturforschung, No 15b, pp 691-693,
1960.

MIN 9-6-62

Sci - Med.

Examination of Electron Microscope
Images of Sections of Healthy and Diseased
Dentine, by H. J. Hoehling.

GERMAN, per, Z. fur Naturforschung, Vol XVb,
No 11, 1960.

NZDIA

Sci
Dec 62

Biogenesis of isoflavones. **XX**, by H. Grisebach,
G. Brandner.

GERMAN, per, Zeitschrift fuer Naturforschung,
No 1, 1961, pp 2-5.

CSIRO/No 6057

Sci-Biol
May 63

232,114

62-18708

Seeman, H. J., Schmidt, G., and Stavenow, F.
INVESTIGATIONS ON QUANTITATIVE X-RAY FLUO-
RESCENT ANALYSIS. [1962] [16]p. 4 refs.
Order from SLA \$1.60 62-18708

Trans. of Z[schrift für] Naturforsch[ung] (West
Germany) 1961, v. 16a [no. 1] p. 25-30.

DESCRIPTORS: *X-rays, *Fluorescence, Analysis,
Excitation, Equations, Iron, Nickel, Alloys, Scintilla-
tion counters, Bremsstrahlung, Continuous spectrum,
*Quantitative analysis.

The fluorescence intensity formed with excitation from
a customary X-ray tube was calculated for a binary
system and compared with experimentally determined
values. It showed a very good agreement. Based on
these results and under simplifying assumptions, a
linear system of equations was formulated which permits
(Metallurgy, TT, v. 9, no. 10) (over)

I. Seeman, H. J.
II. Schmidt, G.
III. Stavenow, F.

Office of Technical Services

The Potassium Content of Chondrites, Achondrites,
and Siderites, by H. Wanke, pp 62-74.

GERMAN, per, Z Naturforsch, Vol XVIa, Jan 1961,
pp 127-131.

ABC AFCL-TR-60-411

Sc1
Sep 61

166,200

61-20826

Groth, R.
ON INFRARED DETECTORS BASED ON PHOSPHORS.
[1961] 9p. 5 refs.
Order from SLA \$1.10

61-20826

I. Groth, R.

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, no. 2, p. 169-172.

DESCRIPTORS: *Infrared detectors, Design, *Infrared
phosphors, Excitation, Detectors, Phosphors.

An infrared detector is proposed which is based on the
stimulation of infrared-sensitive phosphors. The prin-
ciple of such a detector is explained and experimental
results are described which were obtained with an
SrS-Ce-Sm phosphor, by means of which a sensitivity
of 6×10^{-11} watt was obtained for wave lengths of the
order of μ . (Author)
(Physics--Optics, TI, v. 7, no. 2)

Office of Technical Services

Triple Isomerism in Ir¹⁹⁴, by K. F. Alexander,
H. F. Brinckmann, 3 pp.

GERMAN, per, Z fuer Natforschung, Vol XVIa, 1961,
p 210. 9079915

AEC Tr-4648

164, 902

Sci
Aug 61

The Statistical Distribution of Electro-Negative
Gases with High Field Strength, by W. Legler.
GERMAN, per, Zeit Naturforschung, Vol 16a, 1961,
pp 253-261.
C.E. Trans 5308

Sci-
June 70

Properties of Vaporised InSb and InAs Films, by
K. G. Gunther, H. Freller, 7 pp.
GERMAN, per, Zeit fuer Naturforschung, Vol XVIa,
No 3, 1961, pp 279-283.
A.C.S.I.L. Tr 1448

Sci - Chem
Apr 64

253,304

The Statistics of Electron Discharges in Electronegative Gases at High Field Strengths and With Large Gas Amplification, by W. Legler.
GERMAN, per, Zeitschrift für Naturforschung,
Vol 16a, 1961, pp 253-261.
CEGB-5308

June 71

The Sense Organ of Equilibrium of Meal Beetles
(Tenebrio Molitor) and Yellow-Fever Mosquitoes,
by Ulrich Haessler, 6 pp.

GERMAN, par, Zeitschrift für Naturforschung,
Vol XVIIb, No 4, 1962, pp 294-307.

NIN 7-40-63

Sci - Biol & Med
Sep 63

344,298

Properties of Evaporated InSb and InAs
Films, by K. G. Guntner, H. Feller.
GERMANY, per, Zeitschrift fuer Naturforschung,
Vol 16a, 1961, pp 279-83.
SIA TT-66-11032

332 224

Sci
Jul 67

Investigation of Atomic Vacancies in Cu, and Au
by Means of Electric Resistance, by Wolfgang
Schuele, Alfred Seeger, Falko Hummel, Dieter
Schumacher, Kenneth King, 5 pp.
GERMAN, per, Zeitschrift für Naturforschung,
Vol 16a, 1961, pp 323-325. F9111/9267
AEC ANL Tr-465

347,869

Sci - Nuclear Science
Jun 67

The Thermoelectric Power of Metal Films, by
E. Justi, M. Kohler, et al.

GERMAN, per, Zeitschrift fuer Naturforschung.
~~NOV 62~~ No 6A, 1961, pp 456-459.

*AEC

Sci - Phys

May 63

Harten, H. U.
SURFACE CONDUCTIVITY AND SURFACE RECOM-
BINATION AT THE SILICON-ELECTROLYTE INTER-
FACE. [1964] 15p (3 refs omitted) 14refs
Order from SLA \$1.60

TT-64-10905

Trans. of Z[eitschrift für] Naturforschung (West
Germany) 1961, v. 16a [no. 5] p. 459-466.

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-10905

I. Harten, H. U.

Office of Technical Services

Determination of Temperature and Velocity
of a Plasma Stream in a Plasma Burner, by
B. Ahlborn.

GERMAN, pt. 2. Naturforsch., Vol XVIIa,
1965, pp 466-474.
NASA TT F-10,286

Sci-Phys

Dec 66

U. S. GOVERNMENT USE ONLY

314,942

The Measurement of Extremely Short Dissociation
Times of Organic Ions With the Field Ionization
Mass Spectrometer, by H. D. Beckey, 16 pp.

GERMAN, per, Z. Naturforschg, Vol XVIa, 1961,
pp 505-510. 9093615

AEC UCR. Tr-710

Sci - Phys
Dec 61

177, 455

Extraction of Uranium, Plutonium, Rhenium, and
Zirconium With Tri-*n*-octylamine, by Von Werner
Koch, 4 pp.

GERMAN, per, Z Naturforsch, Vol XVII, 1961, pp 525-527.
9093524

ABC Tr-5197

Sci - Min/Metals
Jul 62

204,691

Determining the Kr ³⁵ Content of the Air, by
O. ~~Grix~~ Griesser, A. Sittkus, 5 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol. ~~x~~ XVIa, No 6, 1961, 4 pp.

CIA/FDD X-4941

Sci - Nuclear Phys

Jul 62

202,055

R-777-K-A

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 539-547.

*JPRS for Picatinny Arsenal

Sci -

6 Nov 61

R-777-H-B

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 548-562.

*JPRS for Picatinny Arsenal

Sci

6 Nov 61

Supplement to the book in a 1961 edition
H. J. Kroll, H. G. Koller, 10 pp.

GRUBER, H. J. *Zeit Naturforschungs*, Vol XVII,
No 6, 1961, pp 569-577. 9032290

ADD TO 1715

Sci - Chem, Engrs
Nov 61

172, 4/8

Angular Distribution of Hydrogen and Argon Ions
from a High Frequency Source, by H. Lob and S.
Peyerimhoff.

GERMAN, par, Z. Naturforschg., Vol 16a, 1961,
pp 621-624.

ASTIC Trans. No. 1815

Sci/ Electronics
Jan 68

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Hydromagnetic Instabilities of the Tubular Pinch
Effect, by G. Lehner.
GERMAN, per, Z fuer Naturforschung, Vol ~~XV~~, XVIa,
No 7, 1961, pp 700-711.
NASA TT F-9038

Sci-Phys
Aug 64
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63-12886

Schneider, Jürgen and Rüber, Armin.
THE PARAMAGNETIC RESONANCE OF DONORS IN
ZINC OXIDE (Paramagnetische Resonanz von Donatoren
in Zinkoxyd) tr. by C. H. Amberg. 1963, 6p. 8 refs.
NRCC Technical trans. 1061.
Order from NRCC \$0.50 NRCC C-4308

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, p. 712-714.

DESCRIPTORS: *Metal crystals, Powders, *Zinc com-
pounds, *Oxides, Impurities, *Paramagnetic resonance,
Spectroscopy.

(Physics--Solid State, TT, v. 9, no. 9)

- I. Title: Donor impurities
- I. Schneider, J.
- II. Rüber, A.
- III. NRCC TT-1061
- IV. NRCC C-4308
- V. National Research
Council of Canada

Office of Technical Services

62-14440

Fleischmann, H.
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CONDUCTIVITY OF SEMICONDUCTOR OF THE
FORM $Ca_{1-x}Bi_xMnV$. Dissertation, Marburg,
1961. [1962] 134p. 56 refs.
Order from SLA 53.60

I. Fleischmann, H.

Trans. of Zeitschrift für Naturforsch[un]g (West
Germany) 1961, v. 16a [no. 8] p. 765-780.

DESCRIPTORS: *Semiconductors, Electrical conduct-
ance, Thermal conductivity, Thermoelectricity,
Zone melting, Silver, Lead, Antimony, Tellurium,
Solids, Liquids.

(Physics--Solid State, TT, v. 8, no. 2)

Office of Technical Services

Winkler, H.
THE NUCLEAR MAGNETIC RELAXATION TIME OF
WATER SORBED BY ALUMINUM OXIDE. [1962]
15p.

Order from ATS \$22.60

ATS-24P59G

Trans. of Zeitschrift für Naturforsch[ung] (West
Germany) 1961, v. 16a, p. 780-790.

DESCRIPTORS: *Aluminum compounds, Oxides, *Mag-
netic properties, *Relaxation time.

ATS-911-GJ

(Chemistry--Inorganic, TT, v. 8, no. 5)

62-17139

- I. Winkler, H.
- II. ATS-24P59G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

A. Saupe

Methods of Determining the Degree of Order of
Nematic Crystalline Liquid Layers. The Degree
of Order of Azoxyanisole.
GERMAN, per, Zeitschrift fuer Naturforschung.
Ausgabe A, Vol 16, 1961, pp 815-824
NTC 72-60554-20L

Oct 72

The Diffusion of Uniformly Distributed Rare
Causes from Solid Bodies, by H. Mataka, R. Linder,
10 pp.

GERMAN, per, Z. Naturforschung. Vol XVIa,
1961, pp 845-849. 9093973

ABC Tr-5246

Sci - Phys
Sep 62

212,701

Self-Diffusion in Mo, by W. Danneberg,
et al, 4 pp.
GERMAN, per, Z. Naturforschg. 162, 1961
pp. 854-857.

*CFSTI TT 70-58099
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Sst/chem
Apr 70

Investigations of Balmer Spectra in the Presence of
a High-Frequency Discharge, by H. Schluter, 24 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVIa, 1961,
pp 972-984. 9089583
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ABC HP Tr-886

Sci - Phys
Aug 62

207,507

Measurement of Excitation States of the Nitrogen
Molecule by Photoionization, by F. J. Comes,
A. Lesemann, 9 pp.

✓ R XVIIc

GERMAN, per, Z. fur Naturforschung, 16a: 1038-1042,
1961. 9677018

Amer Meteorol Soc
T-O-173

Sci - Phys
Nov 62

216, 853

Diffusion of Tri- and Quadrivalent Fission Product
Ions in UO_2 by F. Schmitz, R. Lindner, 5 pp.

GERMAN, per, Z Naturforschung, Vol XVIa, 1961,
pp 1096-1097. 9089569

ABC Tr-5171

Sci - Chem, Phys
Aug 62

207,506

Studies on Stone Meteorites With Extremely
High Noble Gas Content, I. The EK Pantar
Chondrites, by H. König, K. Keil, et al,
19 pp.

GERMAN, per, Z. fuer Naturforschung,
Vol. XVIa, 1961, pp 1124-1130. 9066988

AEC Tr-5295

Sci - Astronomy
Oct 62

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Calculation of the E Diffusion of Radioactive
Gases. Part I, by H. Gans, 9 pp.

GHEFMAN, per, Z. Naturforsch, Vol XVIIa, 1961,
pp 1130-1135. 9802271

ABC-Tr-5520

HT8-11425

A75-896-GJ

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224,215

Sci - Phys

6 Mar 63

Analysis of Several Nuclear Magnetic
Resonance Spectra of the Type A2B2,
by B. Dischler, G. Englert. 24p.
GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 16a 1961, pp 1180-1191.
TC-1031

Sci-Chem
Aug 66

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The Diffusion of Kr^{85} in ThO_2 , by Hans Joachim Matzke,
9 pp.

GERMAN, per, Z Naturforsch, Vol XV1a, 1961, pp 1255-1257.
9089632

AEC Tr-5192

Sci - Chem
Aug 62

208,439

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Order from: SLA SL 10 65-10120

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DESCRIPTORS: Metals, Particles, *Ion bombardment,
Velocity, *Secondary emission, Cathodes.

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many) 1961, v. 16b [no. 12] p. 839-840.

DESCRIPTORS: *Magnesium compounds, *Alkyl radi-
cals, *Boron compounds, *Hydrides, Ethyl radicals,
Diboranes, *Chemical reactions, *Reaction kinetics.

The preparation of magnesium hydride from diethyl
magnesium and dihorane proceeds by way of magnesium-
alkyl-boron hydride as intermediate product. New ex-
perimental results are communicated. (Author)

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DESCRIPTORS: *Refractive index, *Electrochemistry,
*Boundary layer, Solutions, Membranes, Electric cur-
rents, Optical properties, Diffusion, Test methods,
Tests.

The index of refraction can be varied by electrical
means to such an extent in electrochemical boundary
layers of suitable solutions that in a large sector total
reflection of light can be produced on such a boundary
layer. The optical effects of the boundary layer in the
case of total reflection are discussed after the calcula-
(Chemistry--Physical, TT, v. 10, no. 7) (over)

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III. Title, Diffusion . . .
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Diffusion, *Solids, *Rare gases, Gases, Radio-
activity, *Diffusion, Determination.

(See also ATS-11P620)

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DESCRIPTORS: *Single crystals, *Cadmium
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